

## § 153.240

means those cargoes that Table 1 references to § 153.525 or § 153.527.

[CGD 78-128, 47 FR 21207, May 17, 1982]

### § 153.240 Insulation.

Cargo containment system insulation made necessary by the requirements of this part must meet the requirements in § 38.05-20 of this chapter. However, the vapor barrier required by § 38.05-20(b) is unnecessary if the insulation is:

- (a) Protected from the weather, and attached to a containment system maintained at a temperature in excess of 46°C (approx. 115°F); or
- (b) In an atmosphere whose dewpoint is less than the temperature of any surface in contact with the insulation.

#### CARGO TANKS

### § 153.250 Double-bottom and deep tanks as cargo tanks.

Except in those cases in which Commandant (G-MSO) specifically approves another arrangement, such as a double-bottom or deep tank as a cargo tank, an integral cargo tank or the hold within which an independent cargo tank is located must extend to the weatherdeck.

[CGD 73-96, 42 FR 49027, Sept. 26, 1977, as amended by CGD 82-063b, 48 FR 4781, Feb. 3, 1983]

### § 153.251 Independent cargo tanks.

All independent cargo tank must meet § 38.05-10 (a)(1), (b), (d), and (e)(1) of this chapter.

[CGD 78-128, 47 FR 21208, May 17, 1982]

### § 153.252 Special requirement for an independent cargo tank.

When Table 1 refers to this section, the cargo tank must be an independent tank that meets §§ 38.05-2(d) and 38.05-4(g) of this chapter. (See also § 153.256(b)).

[CGD 78-128, 47 FR 21208, May 17, 1982]

### § 153.254 Cargo tank access.

(a) A cargo tank must have at least one covered manhole opening into the vapor space described in § 153.354.

(b) An access through a vertical cargo tank surface must be at least 60 cm by 80 cm (approx. 23.6 × 31.5 in.) and no more than 60 cm above a foothold

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grating, or surface on both sides of the access way.

(c) An access through a horizontal cargo tank surface must be at least 60 cm by 60 cm (approx. 23.6 × 23.6 in.).

(d) An access trunk must be no less than 76 cm (approx. 29.9 in.) in diameter.

### § 153.256 Trunks, domes, and openings of cargo tanks.

(a) The hatch of a cargo tank must:

(1) Be at the highest point of the tank; and

(2) Open on or above the weatherdeck.

(b) To be endorsed to carry a cargo requiring an independent cargo tank, a tank must have:

(1) A trunk or dome at the uppermost part of the tank, extending above the weatherdeck;

(2) Its hatch at the top of the trunk or dome; and

(3) No openings below the weatherdeck.

### § 153.266 Tank linings.

A tank lining must be:

(a) At least as elastic as the tank material; and

(b) Applied or attached to the tank as recommended by the lining manufacturer.

#### PIPING SYSTEMS AND CARGO HANDLING EQUIPMENT

### § 153.280 Piping system design.

(a) Each cargo piping system must meet the standards of Part 56 and §§ 38.10-1(b), 38.10-1(e), and 38.10-10(a) of this chapter.

(b) Piping carrying cargo or cargo residue may not enter any machinery space except a cargo pumproom.

### § 153.281 Piping to independent tanks.

Piping for an independent cargo tank must penetrate the tank only through that part of the tank or dome extending above the weatherdeck.

[CGD 78-128, 47 FR 21208, May 17, 1982]

### § 153.282 Cargo filling lines.

The discharge point of a cargo tank filling line must be no higher above the bottom of the cargo tank or sump than